

Title (en)
CYCLOPENTANE HEPTAN(ENE)OIC ACID, 2-HETEROARYLALKENYL DERIVATIVES AS THERAPEUTIC AGENTS

Title (de)
CYCLOPENTANE HEPTAN(ENE)SÄURE, 2-HETEROARYLALKENYLDERIVATE ALS THERAPEUTISCHES MITTEL

Title (fr)
DERIVES 2-HETEROARYLALCENYL DE L'ACIDE CYCLOPENTANE HEPTAN(EN)OIQUE UTILISES COMME AGENTS THERAPEUTIQUES

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Abstract (en)
[origin: US6096902A] The present invention provides cyclopentane heptanoic acid, 2 heteroaryl alkyl or alkenyl derivatives which may be substituted in the 1-position with hydroxyl, alkyloxy, amino and amido groups, e.g. 1-OH cyclopentane heptanoic acid, 2 heteroarylalkenyl derivatives. In particular, these derivatives are 7-[5-hydroxy-2-(heteroatom-substituted hydroxyhydrocarbyl)-3-hydroxycyclopentyl] heptanoic or heptenoic acids and amine, amide, ether, ester and alcohol derivatives of said acids wherein one or more of said hydroxy groups are replaced with an ether group. These compounds are potent ocular hypotensive and are particularly suited for the management of glaucoma. Moreover, the compounds of this invention are smooth muscle relaxants with broad application in systemic hypertensive and pulmonary diseases; with additional application in gastrointestinal disease, reproduction, fertility, incontinence, shock, inflammation, immune regulation, disorder of bone metabolism, renal dysfunction, cancer and other hypoproliferative diseases.

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